

FIG. 1

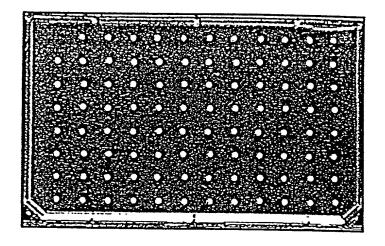
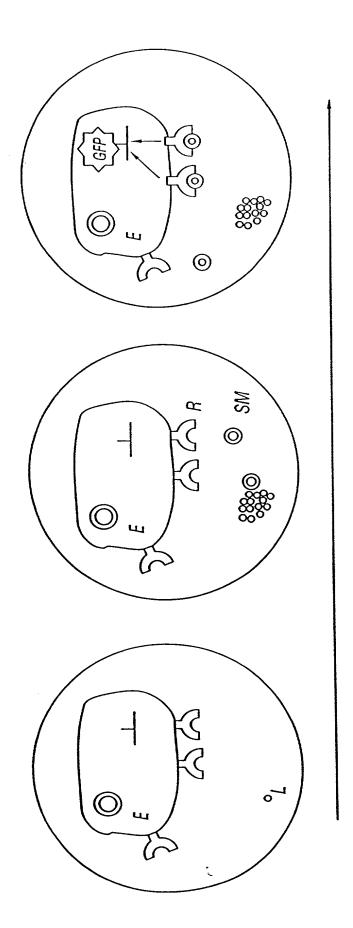


FIG. 2

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Co-encapsulation Library + Eukaryote

Growth and expression of small molecule from host

Receptor binding of small molecule & GFP reporting

E=Eukaryotic assay organism L=Large insert library GFP= Green fluorescent protein R=Eukaryotic receptor

SM=Small molecule

FIG. 3

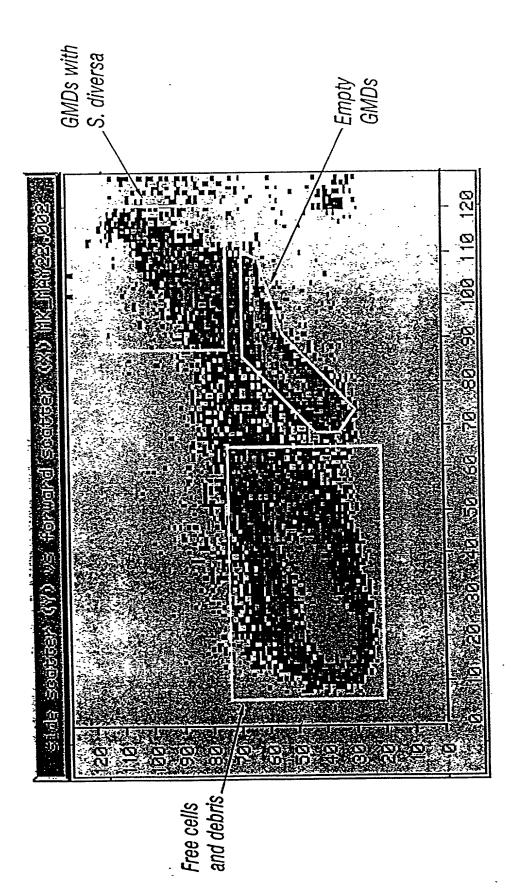
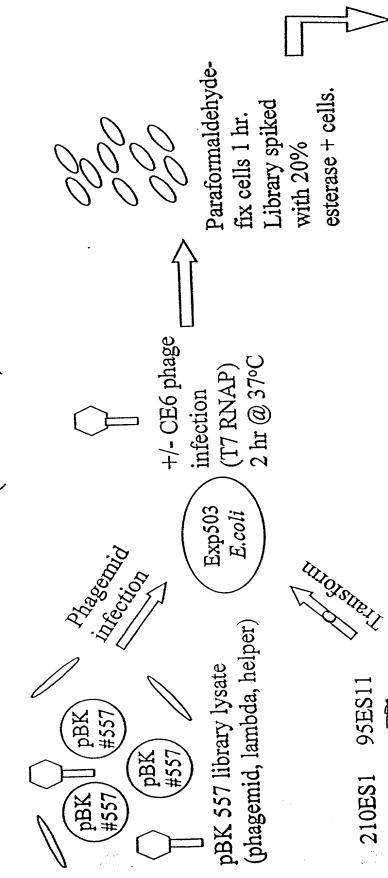


FIG. 4

Whole Cell Hybridization Protocol (+ control)



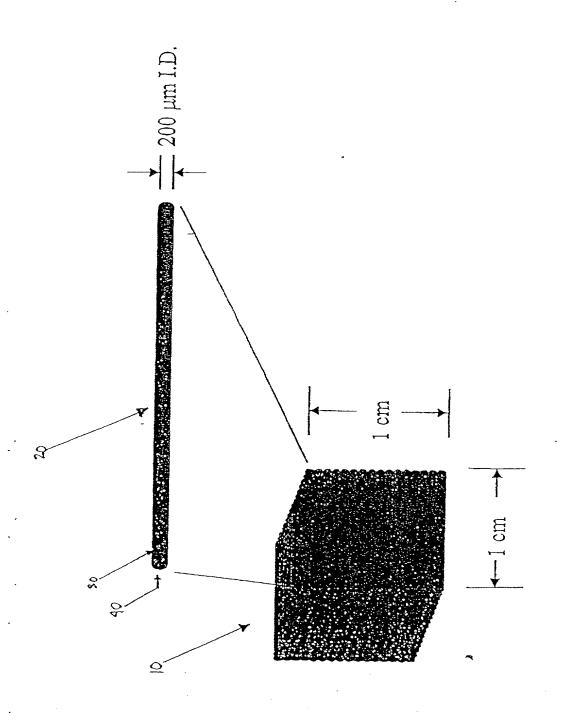
Hyb. with

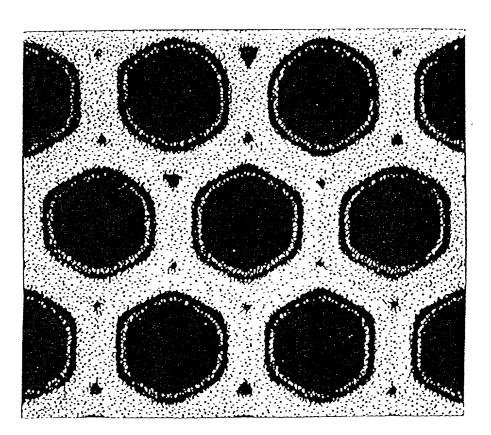
* Fluor-esterase
20-mer probe.
2 hr @ 46°C.
Wash 30 min

@48°C.

Genomic esterase clone

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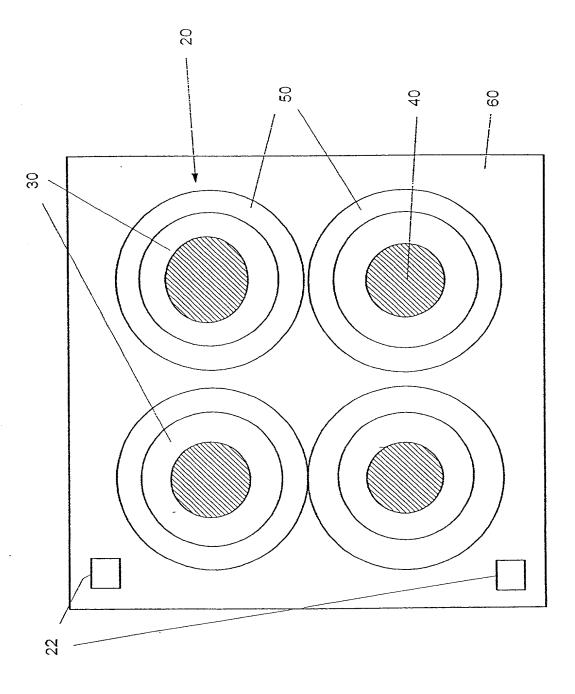
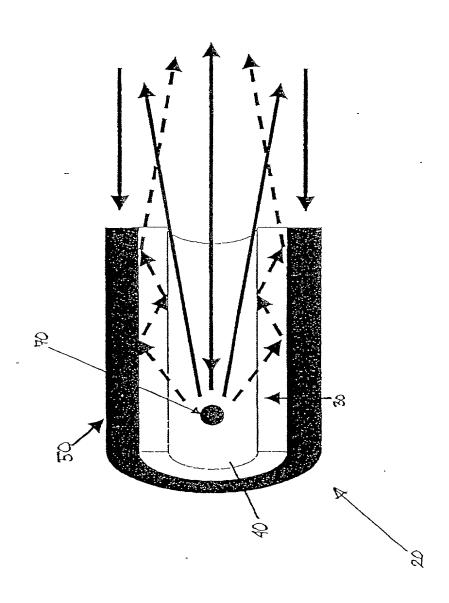


FIG.

21n6.4



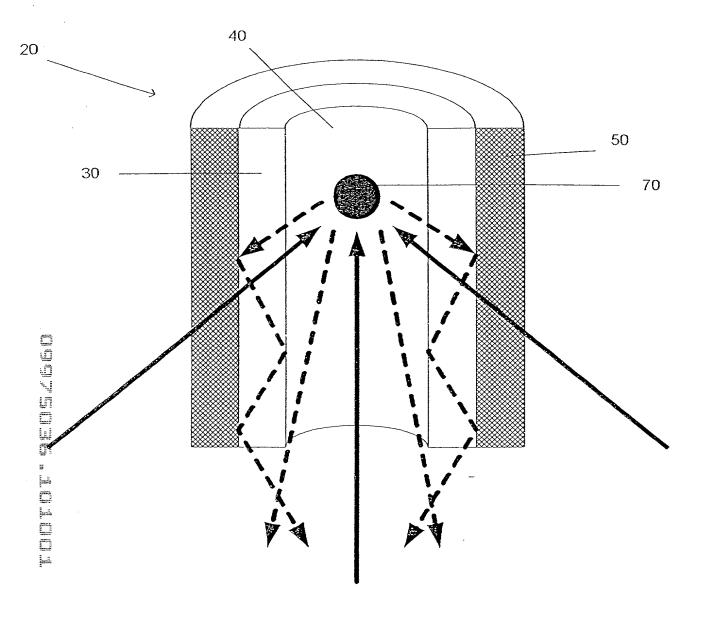
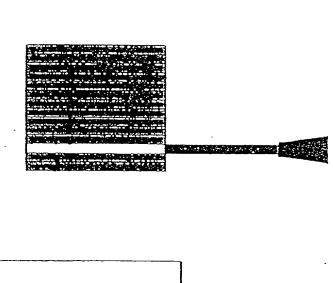


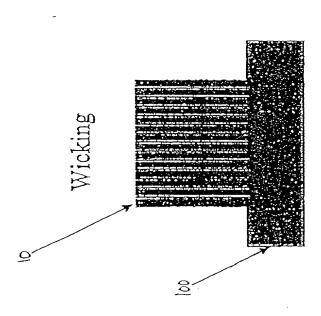
Figure 9

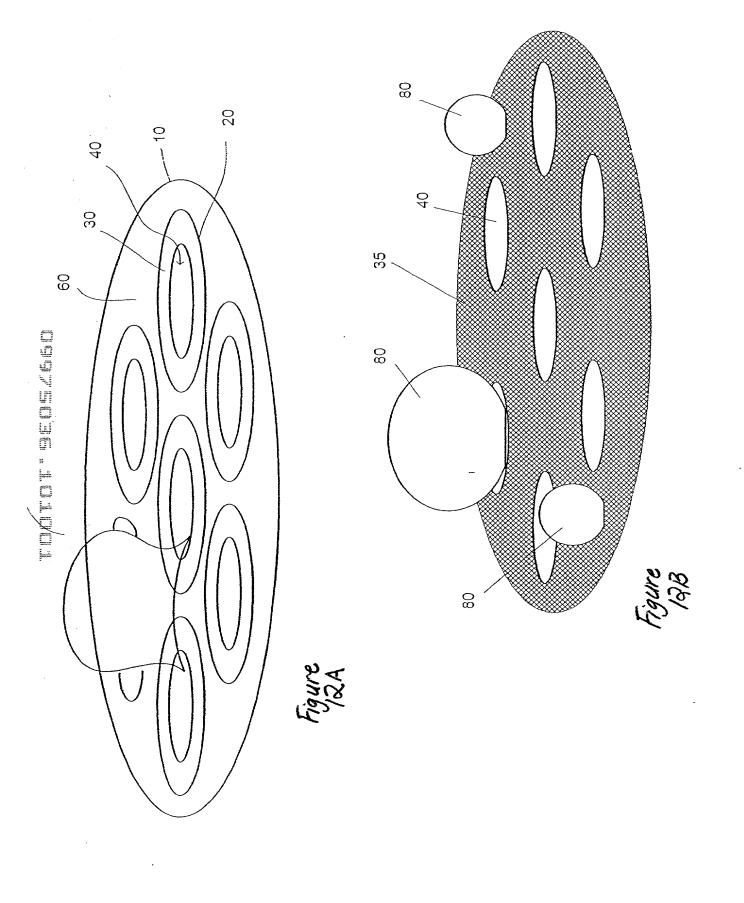
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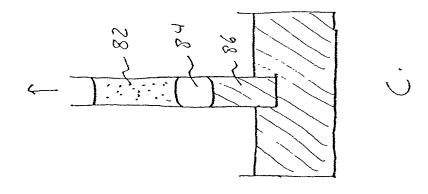


Imaging & Recovery

Humidified Incubation

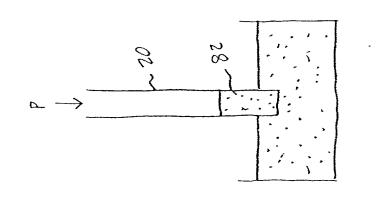






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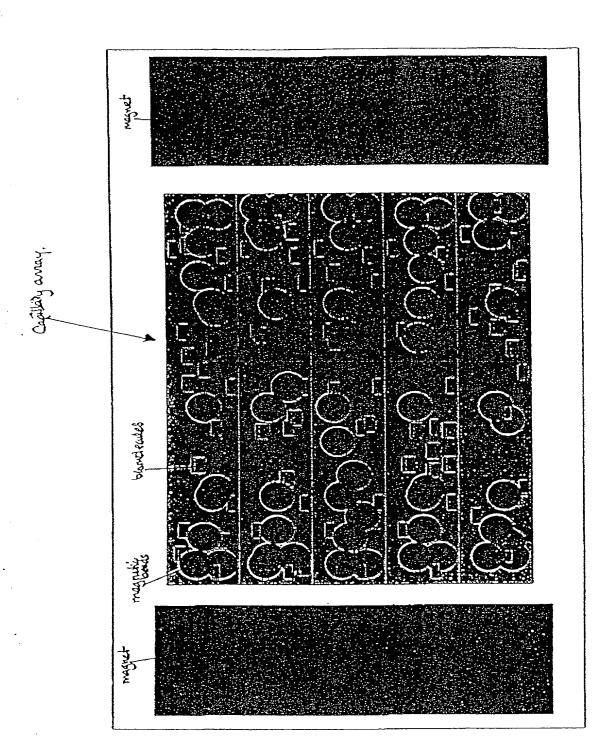
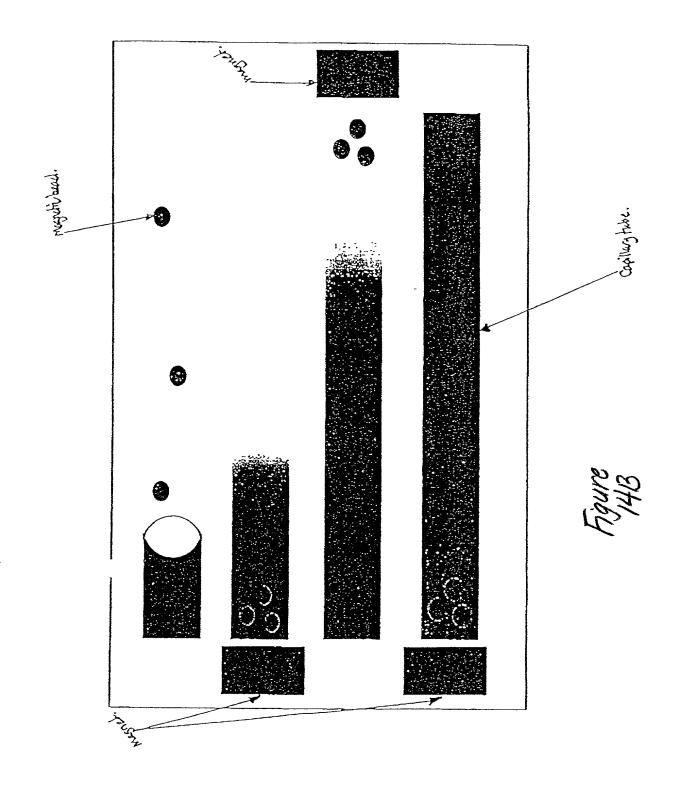
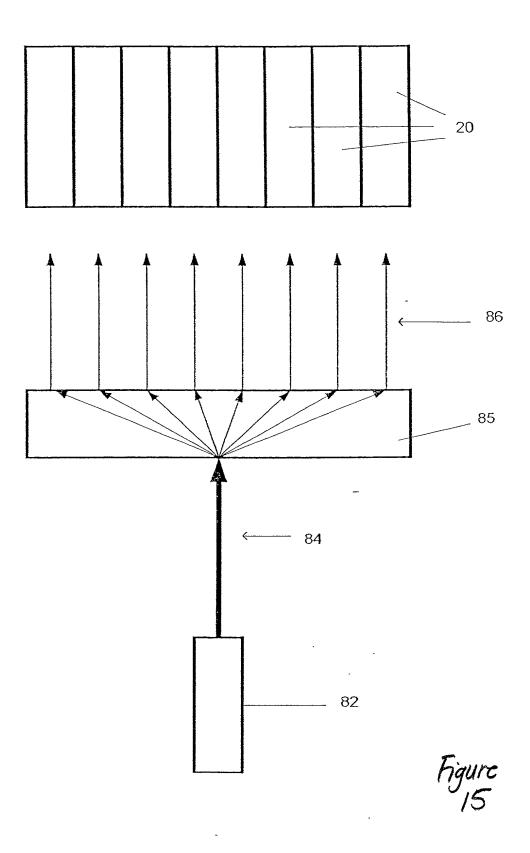
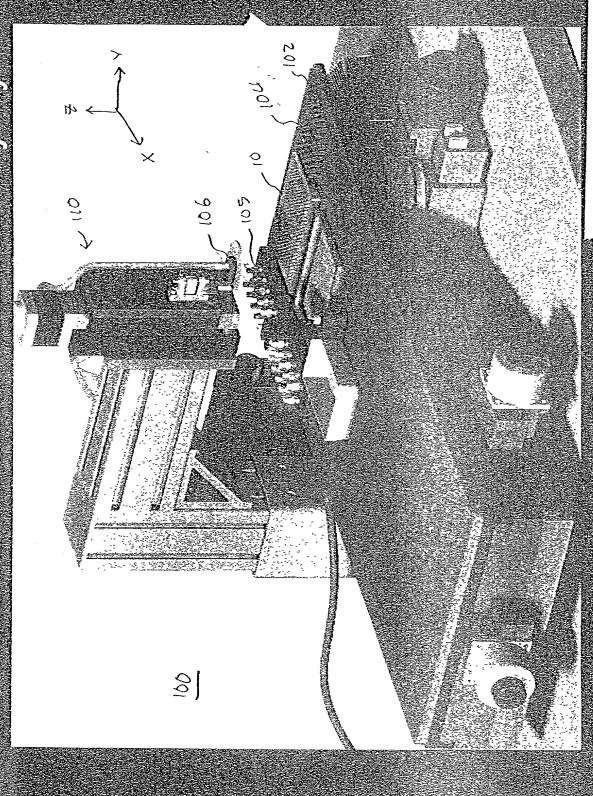
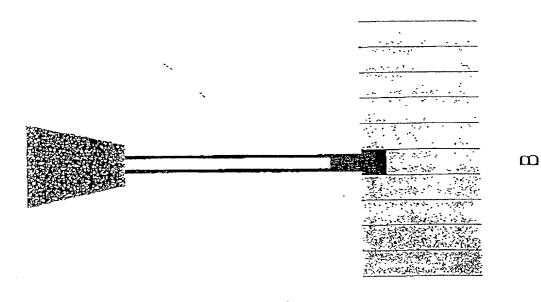


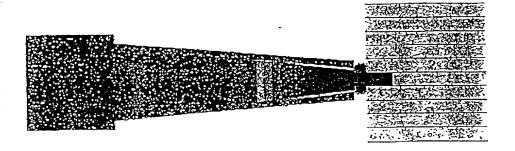
Figure 14A



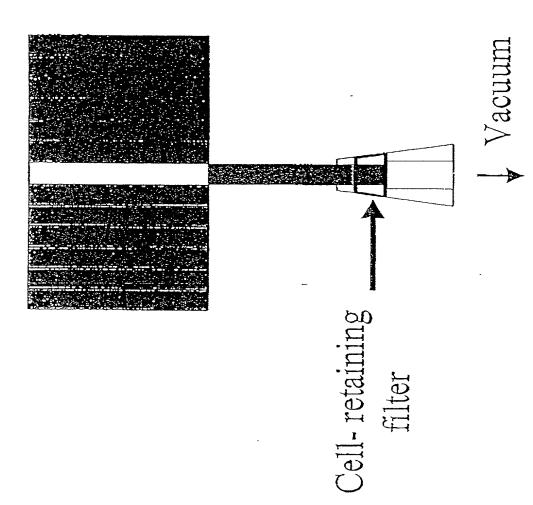


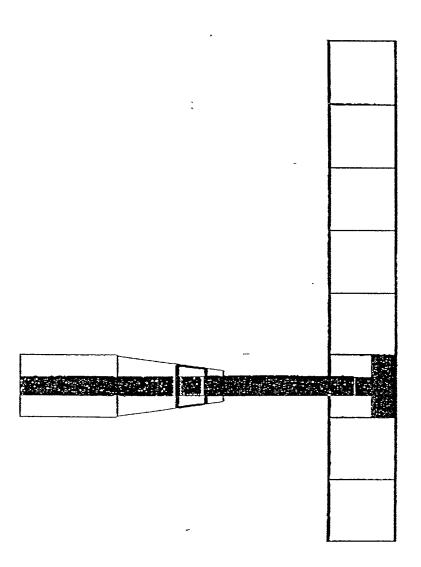






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HTP Enrichment of Low Copy Gene Targets

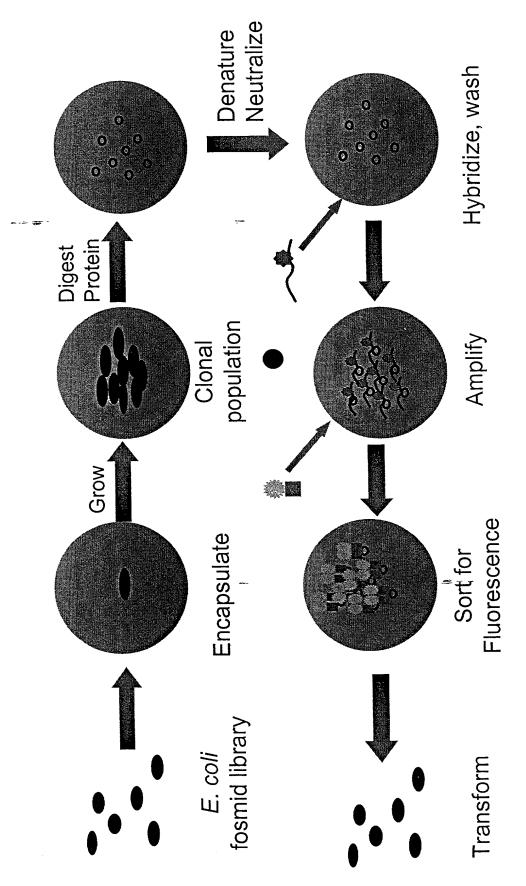
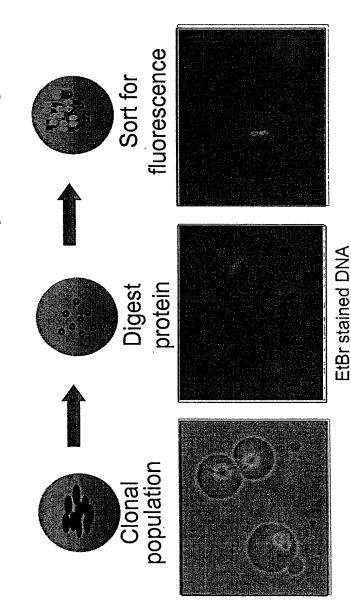


FIG. 18

FACS-Biopanning



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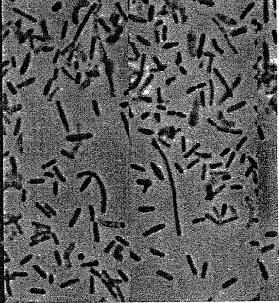
Alignment of Environmental PKS Sequence

White light

Whole Cell Hybridization

Library 557 + 95ES11 clone Probe: Fluorescein-95ES11

Fluorescein Excitation



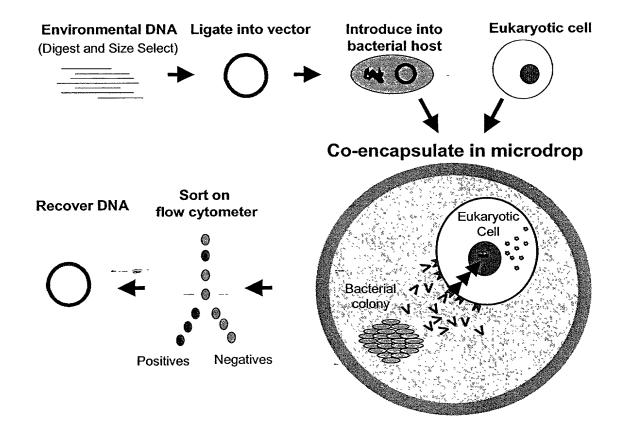
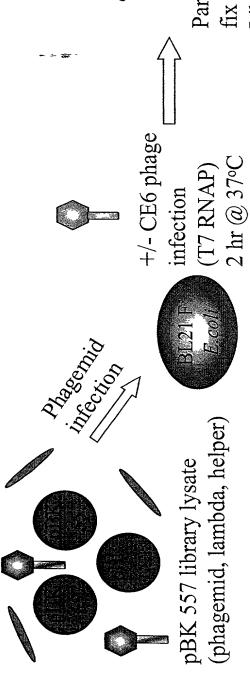


FIG. 21

DGS/SOSS ILLIOSI

Whole Cell Hybridization Protocol





Paraformaldehyde-Library spiked with 20% fix cells 1 hr.

esterase + cells.

Hyb. with

* Fluor-esterase 2 hr @ 46°C. Wash 30 min 20-mer probe. @48°C.

Genomic esterase clone #210ES1 or #95ES11

210ES1

Utiojsueij



T7 RNA Polymerase Expression System

